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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/783,146	02/13/2001	Marc D. VanHeyningen	05313.00003 1516	
7590 07/26/2005		EXAMINER ZAND, KAMBIZ		
Banner & Witcoff, Ltd.				
1001 G. Street, N.W. Washington, DC 20001-4597			ART UNIT	PAPER NUMBER
			2132	
			DATE MAILED: 07/26/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

•	$\iota_{\!\scriptscriptstyle A}$				
	Application No.	Applicant(s)			
Office Action Commons	09/783,146	VANHEYNINGEN ET AL.			
Office Action Summary	Examiner	Art Unit			
The MAN INO DATE of this commission is	Kambiz Zand	2132			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
 Responsive to communication(s) filed on 16 May 2005. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 					
Disposition of Claims					
 4) Claim(s) 1-58 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-7,9-20,22-27,29,31-43,45 and 47-58 is/are rejected. 7) Claim(s) 8,21,28,30,44 and 46 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original than the original than the correction of the original than the origina	epted or b) objected to by the drawing(s) be held in abeyance. on is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
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Address was and (a)	•	Kambiz Zand			
Attachment(s) Notice of References Cited (PTO-892)	4) Interview Summ				
Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date 01/21/2005	Paper No(s)/Mai				

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DETAILED ACTION

1. The text of those sections of Title 35,U.S.Code not included in this section can be found in the prior office action.

- The prior office actions are incorporated herein by reference. In particular, the observations with respect to claim language, and response to previously presented arguments.
- 3. Claims 20, 21, 31, 32, 34, 36, 38, 40, 44 and 46 have been amended.
- 4. New claims 47-58 have been added.
- 5. Claims 1-58 are pending.
- 6. Examiner withdraws provisionally rejected claims 1-46 under 35 U.S.C. 101 as claiming the same invention as that of claims 1-22 of copending Application No. 09/782, 593 due amendments made to the application number 09/782,593 independent claims and applicant's arguments in the response dated 05/16/2005.

Response to Arguments

- 7. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.
- In response to applicant's argument that the references fail to show certain
 features of applicant's invention, it is noted that the features upon which applicant
 relies (i.e.,",) are not recited in the rejected claim(s). Although the claims are
 interpreted in light of the specification, limitations from the specification are not

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read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Double Patenting

8. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- Claims 1, 20, 38 and 47 provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 10, 16 and 23 of copending Application No. 10/248,629. Although the conflicting claims are not identical, they are not patentably distinct from each other because of the following reasons:
- Claim 1 of instant application is obvious since it does not recite "by incorporating a nonce", "by using the nonce in combination with a previously shared encryption key to decrypt each of the data records", as recited in claim 1 of copending Application No. 09/782,593; further more the claim 1 of the instant application has an added limitation "in the second computer, transmitting session information".

for encrypting and decrypting data records to a third computer". However it would have been obvious to one of ordinary skilled in the art to transmit session information to another computer for the purpose of backup or secure transmission of data records.

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- Claim 20 of instant application is obvious over claim 10 of copending Application No. 09/782,593; the claim 20 of the instant application has an added limitation " in the proxy server, transmitting session information including the previously shared encryption key for use in decrypting the plurality of data records to another server". However it would have been obvious to one of ordinary skilled in the art to transmit session information to another computer for the purpose of backup or secure transmission of data records.
- Claim 38 of instant application is obvious over claim 16 of copending Application No. 09/782,593; the claim 38 of the instant application has an added limitation " a third computer coupled to the second computer and having a cache memory for storing at least the encryption key". However it would have been obvious to one of ordinary skilled in the art to transmit security information to another computer for the purpose of backup or secure transmission of data records.
- Claim 47 of instant application is obvious since it does not recite "by incorporating a nonce", "by incorporating the nonce encrypted such that the

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remote computer can decrypt each data records by using the nonce in combination with a previously shared encryption key", as recited in claim 23 of copending Application No. 09/782,593; "a first computer" in the instant application corresponds to co-pending application's "remote computer" further more the claim 47 of the instant application has an added limitation "transmitting session information for decrypting the encrypted data records to a second computer". However it would have been obvious to one of ordinary skilled in the art to transmit session information to another computer for the purpose of backup or secure transmission of data records.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

10. Claims 1-4, 10, 11, 12, 15, 16, 20, 24, 25, 27, 29, 34, 38, 39, 43, 45, 47, 48, 54, 56 and 57 are rejected under 35 U.S.C. 102(e) as being anticipated by Fisher (6,216,229 B1).

As per claims 1 and 47 Fisher (6,216,229 B1) teach a method and a system of transmitting data securely over a computer network (see abstract; fig.6), comprising the steps of: (1) establishing a communication path between a first computer and a second

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computer (see fig.6, blocks 2010 and 2020); (2) encrypting and transmitting data records between the first computer and the second computer using an unreliable communication protocol, wherein each data record is encrypted without reference to a previously transmitted data record (see fig.6, block 2010); (3) in the second computer, receiving and decrypting the data records transmitted in step (2) without reference to a previously received data record (see fig.6, block 2020 and 2030; 2040); and (4) in the second computer, transmitting session information for encrypting and decrypting the data records to a third computer (see fig.1 where escrow agent represent the third computer that receives session information or shared secret). Also see col.4, lines 42-67; col.5-11 and col.12, lines 1-39.

As per claims 2 and 48 Fisher (6,216,229 B1) teach the method of claim 1, further comprising the step of, prior to step (1), establishing a reliable communication path between the first computer and the second computer and exchanging security credentials over the reliable communication path (see fig.4-6).

As per claim 3 Fisher (6,216,229 B1) teach the method of claim 2, wherein the step of exchanging security credentials comprises the step of exchanging an encryption key that is used to encrypt the data records in step (2) (see fig.4-6).

As per claim 4 Fisher (6,216,229 B1) teach the method of claim 2, wherein the session information includes at least a portion of the security credentials (see fig.4-6).

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As per claims 10, 43 and 54 Fisher (6,216,229 B1) teach the method of claims 1 and 38, wherein step (2) is performed by a proxy server that encrypts data records received from another server (see fig.1-6).

As per claims 11, 12 Fisher (6,216,229 B1) teach a system with number of terminals (see fig.1) and all limitations of the method of claim 1 including establishes a communication path with the first computer; and encrypts and transmits data records to the first computer using an unreliable communication protocol, wherein each data record is encrypted without reference to a previously transmitted data record and by employing the session information above. Col.4, lines 42-48 establish a communication path between all computers (terminal a-n of fig.1 that corresponds to computer 1, 2, 3,4 ...,n).

As per claims 15 and 56 Fisher (6,216,229 B1) teach the method of claim 1, wherein the session information includes an encryption key that is used to encrypt data records in step (2) (see fig.4-6).

As per claims 16 and 57 Fisher (6,216,229 B1) teach the method of claim 1, wherein the session information is stored by the third computer in a cache memory using a hash function (see fig.1 and 6; col.4, lines 43-67 and col.5, lines 1-7).

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As per claims 20 and 27 Fisher (6,216,229 B1) teach a method of securely transmitting a plurality of data records between a client computer and a proxy server using an unreliable communication protocol, comprising the steps of: (1) establishing a reliable connection between the client computer and the proxy server; (2) exchanging encryption credentials between the client computer and the proxy server over the reliable connection; (3) generating a nonce for each of a plurality of data records, wherein each nonce comprises an initialization vector necessary to decrypt a corresponding one of the plurality of data records; (4) using the nonce to encrypt each of the plurality of data records and appending the nonce to each of the plurality of data records; (5) transmitting the plurality of data records encrypted in step (4) from the client computer to the proxy server using an unreliable communication protocol; (7) in the proxy server, decrypting each of the plurality of encrypted data records using a corresponding nonce extracted from each data record and a previously shared encryption key; and (8) in the proxy server, transmitting session information including the previously shared encryption key for use in decrypting the plurality of data records to another server (as applied to claim 1 above and where examiner considers any terminal to be a client computer or a server).

As per claim 25 Fisher (6,216,229 B1) teach the method of claim 20, wherein step (6) is performed using an encryption key previously shared using a reliable communication protocol (see fig.1-6).

As per claim 33 Fisher (6,216,229 B1) teach the method of claim 20, wherein the session information includes authentication information for a user of the client computer (see fig.6).

As per claims 29 and 34 Fisher (6,216,229 B1) teach the method of claim 20, wherein the session information is stored by the other server in a cache memory using a hash function (see fig.6).

As per claims 38 Fisher (6,216,229 B1) teach system for securely transmitting data using an unreliable protocol, comprising: a first computer comprising a communication protocol client function operable in conjunction with an application program to transmit data records securely using an unreliable protocol; and a second computer coupled to the first computer and comprising a communication protocol server function operable in conjunction with the communication protocol client function to receive data records securely using the unreliable communication protocol, wherein the communication protocol client function encrypts each data record using a nonce and an encryption key and appends the respective nonce to each of the encrypted data records; and wherein the communication protocol server function decrypts each of the data records using the respectively appended nonce and the encryption key; and a third computer coupled to the second computer and having a cache memory for storing at least the encryption key (as applied to claim 1 above).

As per claim 39 Fisher (6,216,229 B1) teach the system of claim 38, wherein the communication protocol client function exchanges encryption credentials with the communication protocol server function using a reliable communication protocol (see fig.1-6).

As per claim 45 Fisher (6,216,229 B1) teach the system of claim 38, wherein the third computer is a proxy server that can receive encrypted records from the first computer; can decrypt records the received records using at least the encryption key stored in the cache memory; and can forward the decrypted records received from the first computer to a server computer (see fig.6).

Claim Rejections - 35 USC § 103

11. Claims 5-7, 22-23 and 49-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fisher (6,216,229 B1) in view of Camp et al (6,317,729 B1).

As per claims 5 and 49 Fisher (6,216,229 B1) teach all limitation of the claim as applied to the method of claim 1, but do not explicitly disclose wherein step (2) of claim 1 comprises the step of incorporating a nonce in each data record that is used by the second computer in combination with a previously shared encryption key to decrypt each of the data records in step (3) of claim 1. However Camp et al. (6,317,729 B1) disclose wherein step (2) comprises the step of incorporating a nonce in each data record that is used by the second computer in combination with a previously shared

encryption key to decrypt each of the data records in step (3) (see abstract; col.4, table 1 where a message between the tow party is being described; col.4-5, table 2 where the field in the message that is being transmitted between two party such as computer a and b being describe a nonce, random numbers chall-m and chall-c that corresponds to keys used for encryption or decryption; also see col.7-11). It would have been obvious to one of ordinary skilled in the art at the time the invention was made to utilize Camp's nonce and key utilize in SET in Fisher's record in order to offers multiple protocols for electronic commerce which reflect different types of Internet access available.

As per claims 6, 22, 23 and 50 Fisher (6,216,229 B1) teach all limitation of the claim as applied to the method of claims 5 and 20 above, but do not explicitly disclose, wherein the nonce comprises a random number; unique number. However Camp et al. (6,317,729 B1) disclose wherein the nonce comprises a random number (see col.4, table 2, second variable and therefore it is a unique number since it has a random value). It would have been obvious to one of ordinary skilled in the art at the time the invention was made to utilize Camp's nonce and key utilize in SET in Fisher's record in order to offers multiple protocols for electronic commerce which reflect different types of Internet access available.

As per claims 7 and 51 Fisher (6,216,229 B1) teach all limitation of the claim as applied to the method of claim 5 above, but do not explicitly disclose, further comprising the step of, in the second computer, verifying that the nonce has not previously been

received in a previously transmitted data record. However Camp et al. (6,317,729 B1) disclose, further comprising the step of, in the second computer, verifying that the nonce has not previously been received in a previously transmitted data record (see col.7-11). It would have been obvious to one of ordinary skilled in the art at the time the invention was made to utilize Camp's nonce and key utilize in SET in Fisher's record in order to offers multiple protocols for electronic commerce which reflect different types of Internet access available.

12. Claims 9, 13, 14, 17, 18, 19, 24, 26, 31, 32, 35, 36, 37, 40, 42, 53, 55 and 58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fisher (6,216,229 B1) in view of Applicant Admittance of Prior Art (AAPA).

As per claims 9, 13, 14, 24, 26, 31, 32, 40, 41, 42, 53 and 55 Fisher (6,216,229 B1) teach all limitations of the claim but do not expressly disclose, wherein step (1) is performed using the Transmission Control Protocol, and wherein step (2) is performed using the User Datagram Protocol; wherein the session information is SSL or TLS session information/session identifier; wherein step (1) is performed using Transmission Control Protocol, and wherein step (5) is performed using User Datagram Protocol; wherein the reliable communication protocol is Transmission Control Protocol; are compatible with the SOCKS communication. However AAPA disclose all above limitations on pages 1-8 and page 9, lines 1-20 of the specification as prior art. The

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motivation for an ordinary skilled in the art to utilize the above limitations in Fisher's method also is disclosed on pages 1-8 and page 9, lines 1-20 of the specification.

As per claims 17 and 35 Fisher (6,216,229 B1) teach all limitations of the claim including the hash function as applied to claims 1 and 20 above but do not expressly disclose, wherein the hash function is the BUZhash function. However AAPA disclose all above limitations on page 29, lines 19-29 and page 30, lines 1-9 of the specification as prior art. The motivation for an ordinary skilled in the art to utilize the above limitations in Fisher's method also is disclosed on pages 30, lines 1-9 of the specification.

1.

As per claims 18, 19, 36, 37 and 58 Fisher (6,216,229 B1) teach all limitation of the claim including transmission of session information between the computers as applied to the method of claims, 1, 11, 12 and 20 but do not expressly disclose using multicast communication; or negative acknowledgment multicast communication. However AAPA disclose all above limitations on page 34, lines 27-29 and page 35, lines 1-15 of the specification as prior art. The motivation for an ordinary skilled in the art to utilize the above limitations in Fisher's method also is disclosed on pages 35, lines 10-13 of the specification.

Allowable Subject Matter

13. Claims 8, 21, 28, 30, 44 and 46 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

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14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kambiz Zand whose telephone number is (571) 272-3811. The examiner can normally reached on Monday-Thursday (8:00-5:00). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on (571) 272-3799. The fax phone numbers for the organization where this application or proceeding is assigned as (571) 273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kambiz Zand

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